

Notice of Allowability

Application No.

10/766,963

Examiner

Hoang V. Nguyen

Applicant(s)

MORI ET AL.

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 12 September 2005.
2. ☒ The allowed claim(s) is/are 1-5, 7-22 and 24-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

HOANG V. NGUYEN
PRIMARY EXAMINER

Allowable Subject Matter

1. Claims 1-5, 7-22 and 24-32 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 18, Fukuura et al (US 6,556,169) fails to specifically teach, among other features, that the junction conductor having a pillar portion and a flange portion; wherein the flange portion being connected to a feeding conductor on the circuit base board; and that the dielectric substrate having a through hole for letting the pillar portion of the junction conductor pierce therein and a space portion for housing the flange portion.

Claims 2 and 7-9 are allowed for depending on claim 1.

Claims 19 and 24-26 are allowed for depending on claim 18.

Regarding claim 11, none of the prior art of record, either taken alone or in combination, fairly teaches or suggests a method comprising a process that connects a flange portion of a junction conductor formed of a pillar portion and the flange portion to a feeding conductor on a circuit base board side; and a process that bonds the circuit base board and the dielectric substrate by interposing an elastically adhesive material between them.

Regarding claim 12, Fukuura fails to specifically teach, among other features, that the junction conductor having a pillar portion piercing the dielectric substrate and a flange portion formed at the other end of the pillar portion; wherein the dielectric substrate includes a through hole for letting the pillar portion of the junction conductor pierce therein and a space portion for housing the flange portion.

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Regarding claims 13 and 28, Fukuura fails to specifically teach, among other features, that the junction conductor having a pillar portion and a flange portion; and a conductor layer disposed on a lower face side of a feeding conductor having a conductor removal part that has removed the conductor layers adjacent to a connecting portion of the junction conductor and the feeding conductor.

Claims 14-16 are allowed for depending on claim 13.

Claims 29-31 are allowed for depending on claim 28.

Reasons for indicating allowable subject matter for claims 3-5, 10, 17, 20-22, 27 and 32 were provided in the previous Office action.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

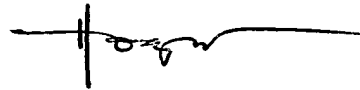
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn
9/22/05



**HOANG V. NGUYEN
PRIMARY EXAMINER**